

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW071318\
 Data File : VW003927.D
 Acq On : 13 Jul 2018 20:38
 Operator : VA/AP
 Sample : J3947-03RE
 Misc : 4.73G/5ML/MSVOA W/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Jul 13 23:54:43 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W070718S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 07 05:07:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	167277	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	290197	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	230268	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	69054	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	112332	51.35	ug/l	0.00
Spiked Amount			Recovery	=	102.70%	
35) Dibromofluoromethane	7.88	113	95896	47.22	ug/l	0.00
Spiked Amount			Recovery	=	94.44%	
50) Toluene-d8	10.33	98	321188	41.34	ug/l	0.00
Spiked Amount			Recovery	=	82.68%	
62) 4-Bromofluorobenzene	12.62	95	87990	31.30	ug/l	0.00
Spiked Amount			Recovery	=	62.60%	

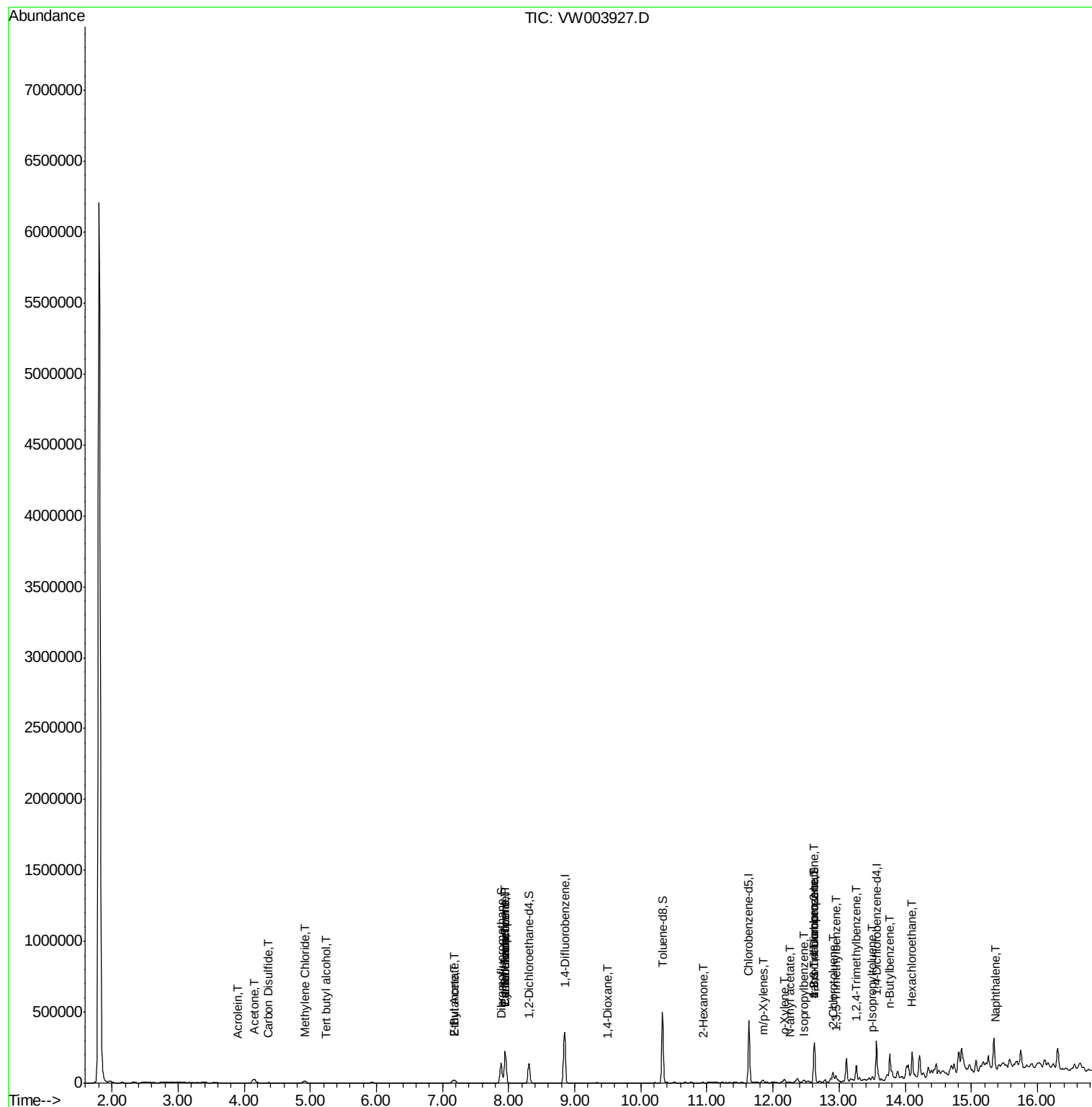
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.23	59	331	2.792	ug/l #	70
13) Acrolein	3.90	56	217	5.821	ug/l #	53
16) Acetone	4.15	43	62617	164.987	ug/l	99
17) Carbon Disulfide	4.37	76	7315	1.420	ug/l	95
20) Methylene Chloride	4.92	84	11067	1.753	ug/l #	89
25) 2-Butanone	7.18	43	20839	35.056	ug/l	95
31) Cyclohexane	7.95	56	4657	1.459	ug/l #	11
36) 1,1-Dichloropropene	7.95	75	14361	4.664	ug/l #	49
37) Ethyl Acetate	7.18	43	20839	13.909	ug/l #	71
38) Carbon Tetrachloride	7.95	117	17307	5.912	ug/l #	16
49) 1,4-Dioxane	9.49	88	41	2.279	ug/l #	12
59) 2-Hexanone	10.93	43	2156	2.137	ug/l #	27
68) m/p-Xylenes	11.85	106	5195	1.563	ug/l	94
69) o-Xylene	12.17	106	6188	2.018	ug/l	97
73) Isopropylbenzene	12.47	105	5361	1.146	ug/l	97
74) N-amyl acetate	12.26	43	1815	1.432	ug/l #	45
76) 1,2,3-Trichloropropane	12.62	75	46535	68.626	ug/l #	100
79) 2-Chlorotoluene	12.91	91	6962	2.064	ug/l #	42
80) 1,3,5-Trimethylbenzene	12.95	105	12885	3.197	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.62	75	46535	167.875	ug/l #	8
84) 1,2,4-Trimethylbenzene	13.26	105	57555	13.745	ug/l	99
86) p-Isopropyltoluene	13.51	119	9314	2.144	ug/l	98
89) n-Butylbenzene	13.77	91	24044	5.625	ug/l #	45
90) Hexachloroethane	14.10	117	9442	11.281	ug/l #	10
95) Naphthalene	15.38	128	4435	1.732	ug/l #	78

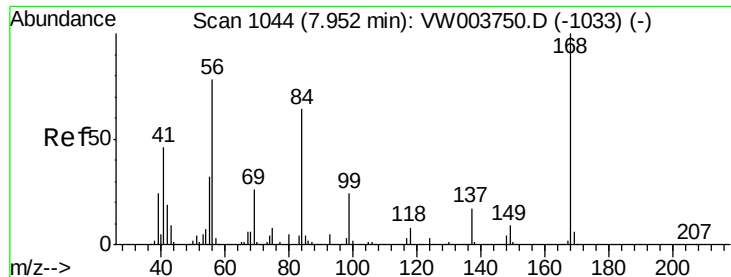
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W070718S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 07 05:07:25 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.00 min

Lab File: VW003927.D

Acq: 13 Jul 2018 20:38

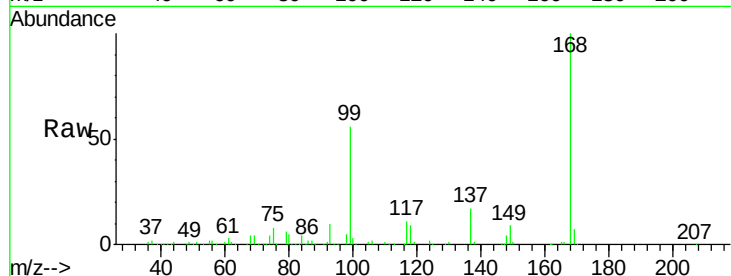
Instrument :
MSVOA_W
ClientSampled :

Tot Ion:168 Resp: 167277

Ion Ratio Lower Upper

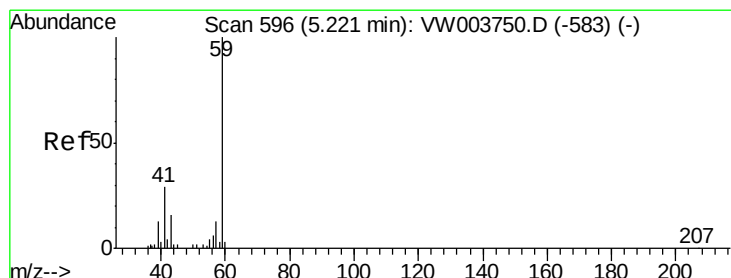
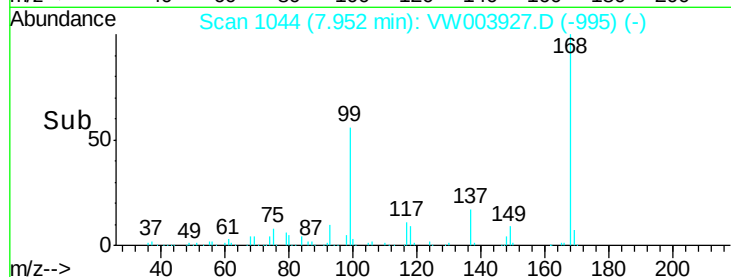
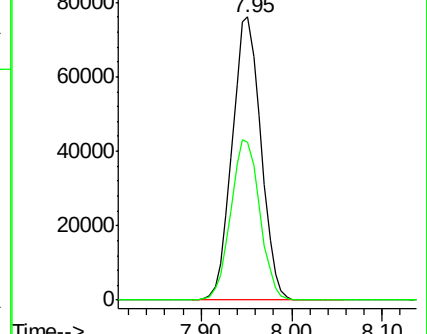
168 100

99 55.9 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 2.792 ug/l

RT: 5.23 min Scan# 598

Delta R.T. 0.01 min

Lab File: VW003927.D

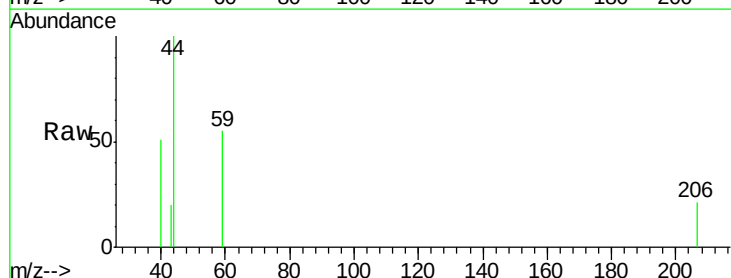
Acq: 13 Jul 2018 20:38

Tgt Ion: 59 Resp: 331

Ion Ratio Lower Upper

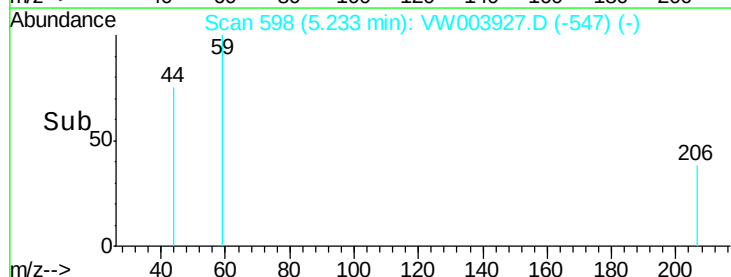
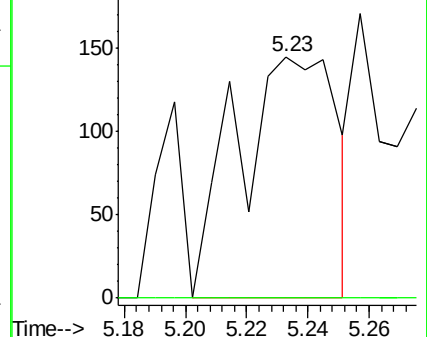
59 100

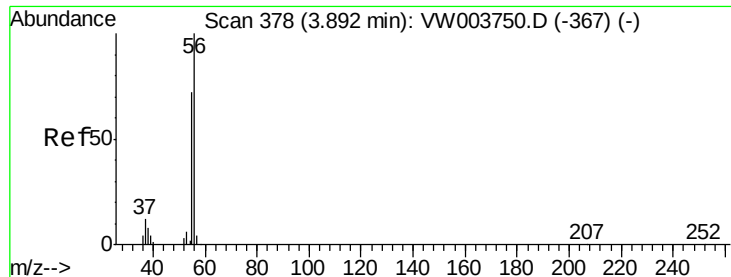
57 0.0 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: 5.821 ug/l

RT: 3.90 min Scan# 380

Delta R.T. 0.01 min

Lab File: VW003927.D

Acq: 13 Jul 2018 20:38

Instrument :

MSVOA_W

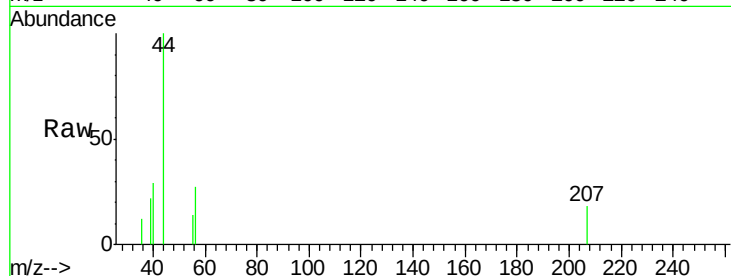
ClientSampled :

Tot Ion: 56 Resp: 217

Ion Ratio Lower Upper

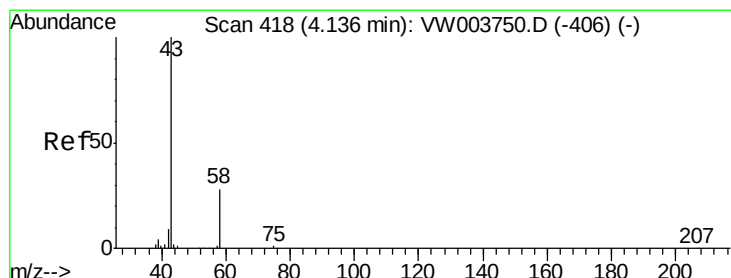
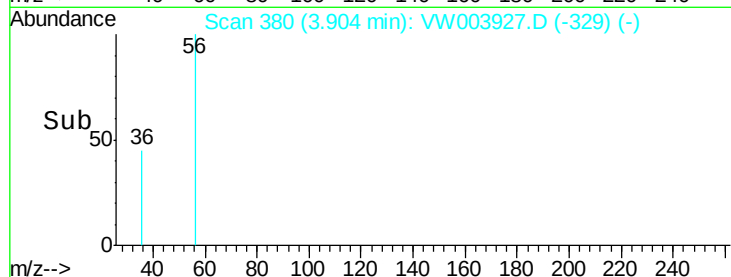
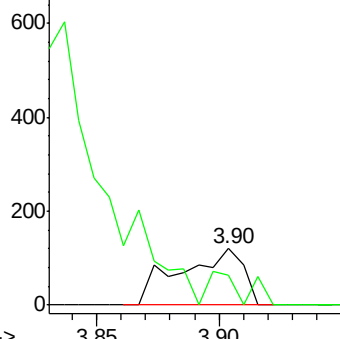
56 100

55 33.2 57.5 86.3#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#16

Acetone

Concen: 164.987 ug/l

RT: 4.15 min Scan# 420

Delta R.T. 0.01 min

Lab File: VW003927.D

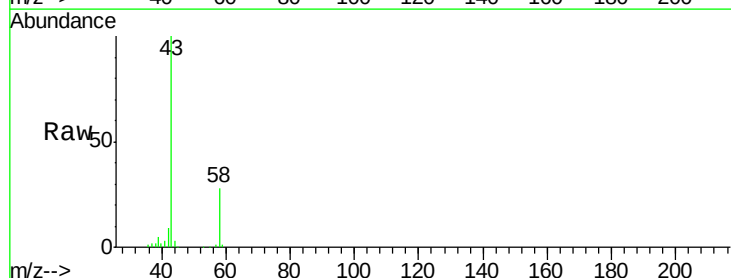
Acq: 13 Jul 2018 20:38

Tgt Ion: 43 Resp: 62617

Ion Ratio Lower Upper

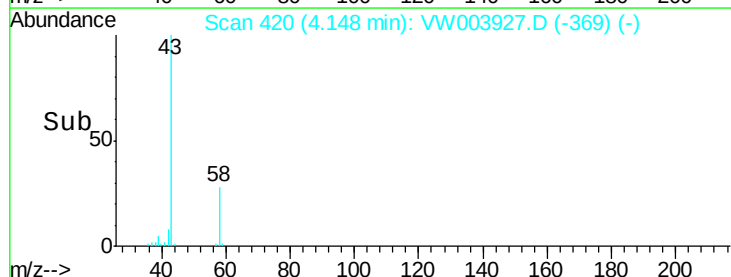
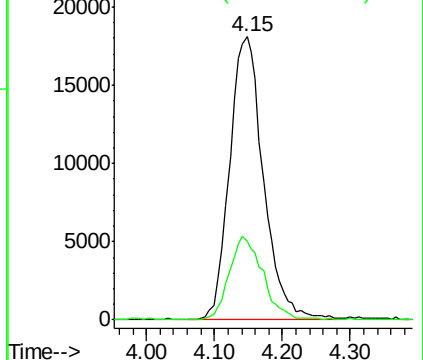
43 100

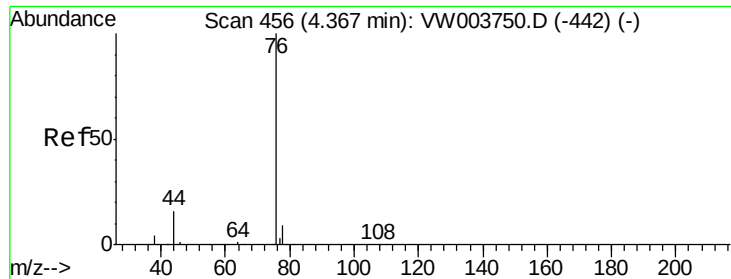
58 27.6 22.6 34.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#17

Carbon Disulfide

Concen: 1.420 ug/l

RT: 4.37 min Scan# 456

Delta R.T. -0.00 min

Lab File: VW003927.D

Acq: 13 Jul 2018 20:38

Instrument :

MSVOA_W

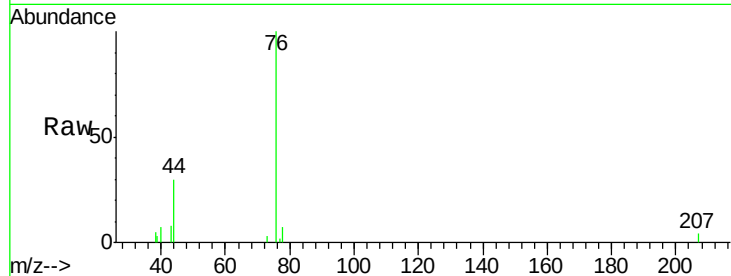
ClientSampled :

Tot Ion: 76 Resp: 7315

Ion Ratio Lower Upper

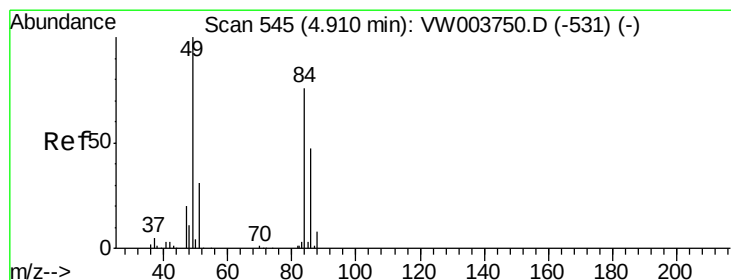
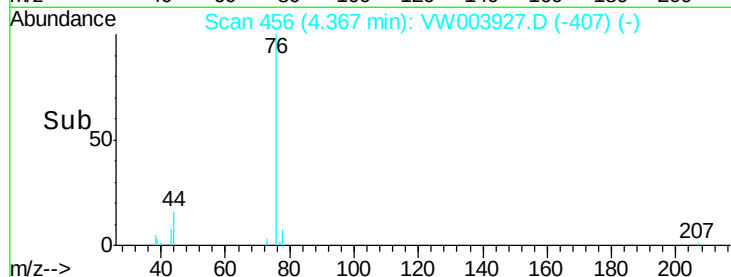
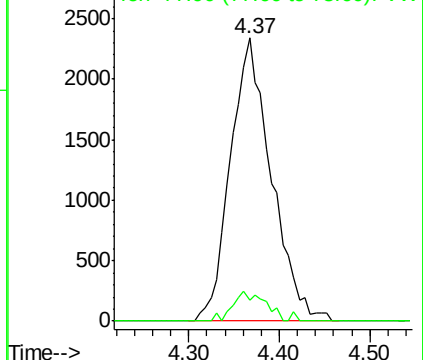
76 100

78 7.5 7.4 11.2



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW



#20

Methylene Chloride

Concen: 1.753 ug/l

RT: 4.92 min Scan# 546

Delta R.T. 0.01 min

Lab File: VW003927.D

Acq: 13 Jul 2018 20:38

Tgt Ion: 84 Resp: 11067

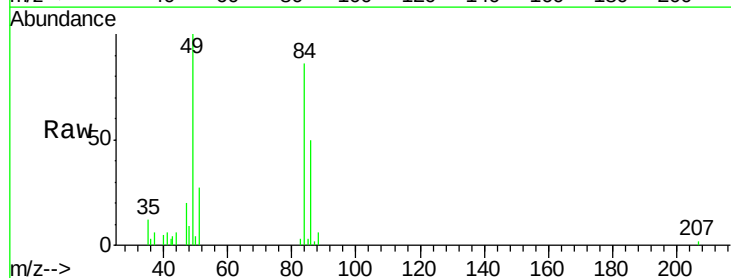
Ion Ratio Lower Upper

84 100

49 116.1 105.1 157.7

51 31.1 32.5 48.7#

86 58.2 49.8 74.6

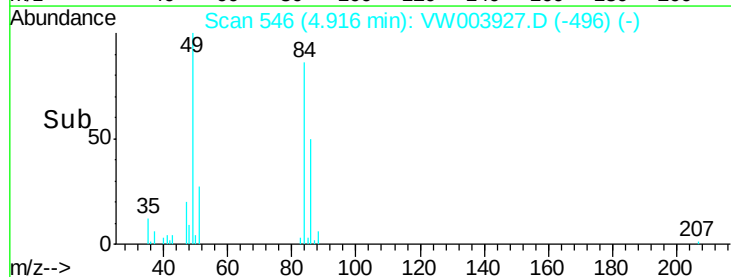
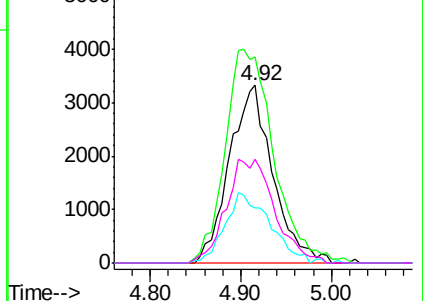


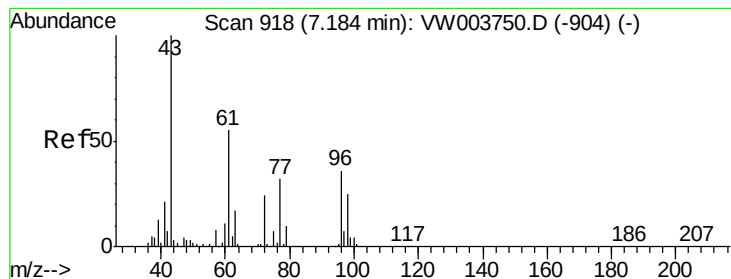
Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW





#25

2-Butanone

Concen: 35.056 ug/l

RT: 7.18 min Scan# 918

Delta R.T. -0.00 min

Lab File: VW003927.D

Acq: 13 Jul 2018 20:38

Instrument :

MSVOA_W

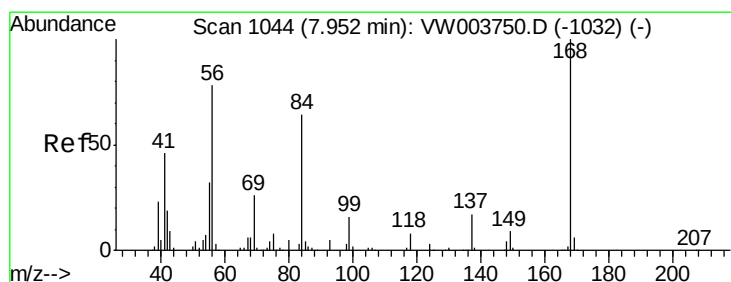
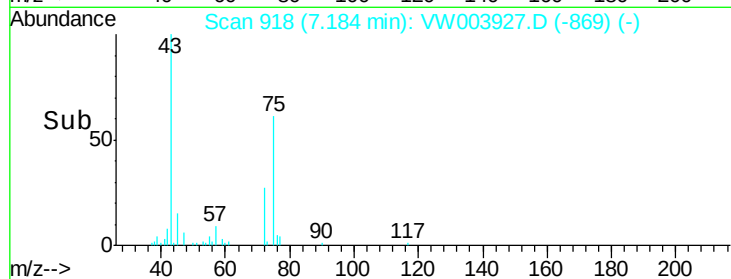
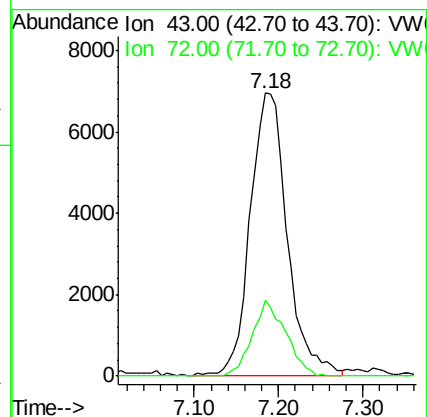
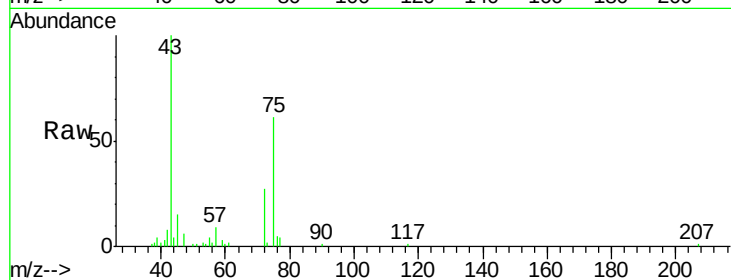
ClientSampleId :

Tot Ion: 43 Resp: 20839

Ion Ratio Lower Upper

43 100

72 26.9 19.4 29.2



#31

Cyclohexane

Concen: 1.459 ug/l

RT: 7.95 min Scan# 1043

Delta R.T. -0.01 min

Lab File: VW003927.D

Acq: 13 Jul 2018 20:38

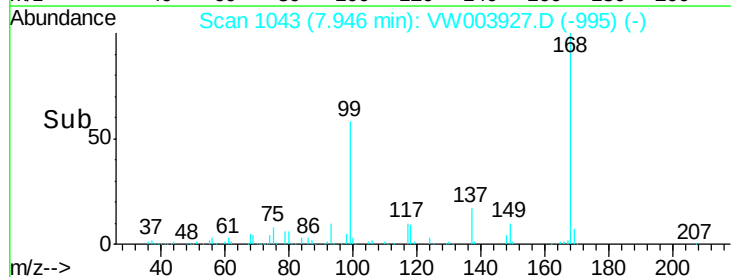
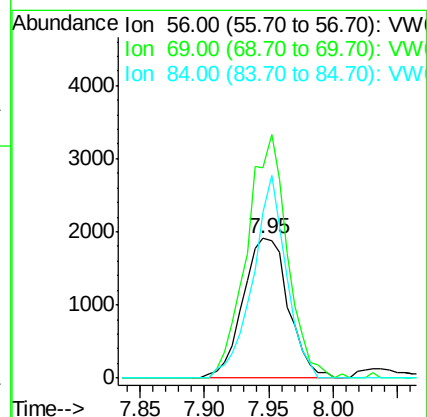
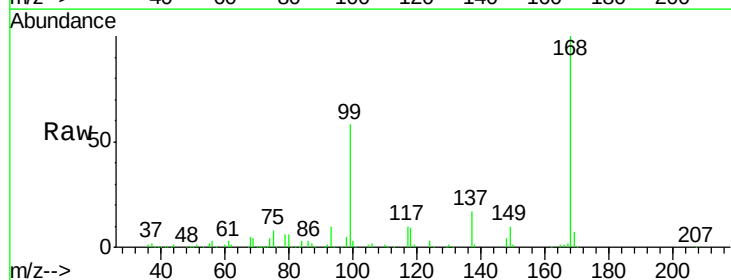
Tgt Ion: 56 Resp: 4657

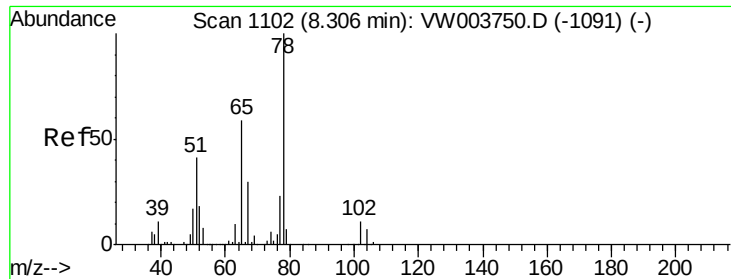
Ion Ratio Lower Upper

56 100

69 150.6 26.2 39.4#

84 118.0 65.5 98.3#

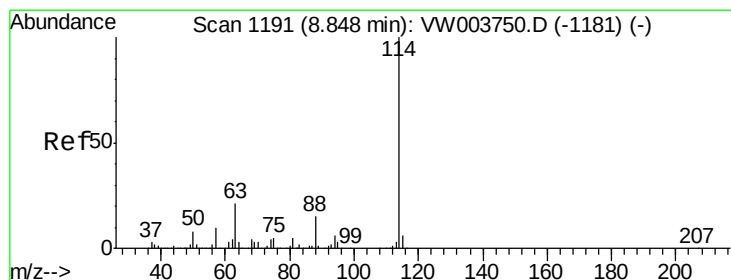
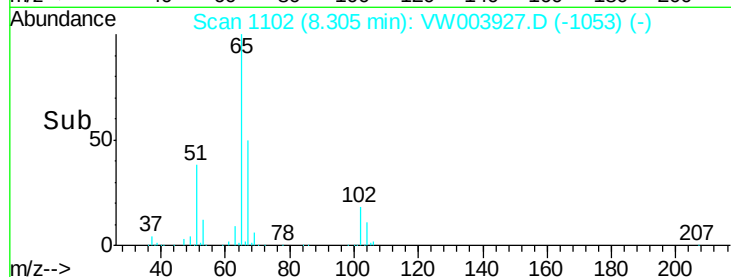
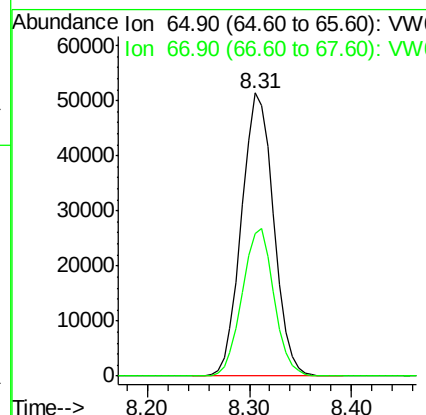
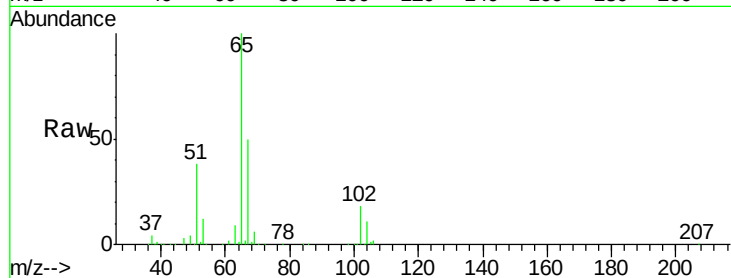




#33
 1,2-Dichloroethane-d4
 Concen: 51.351 ug/l
 RT: 8.31 min Scan# 1102
 Delta R.T. -0.00 min
 Lab File: VW003927.D
 Acq: 13 Jul 2018 20:38

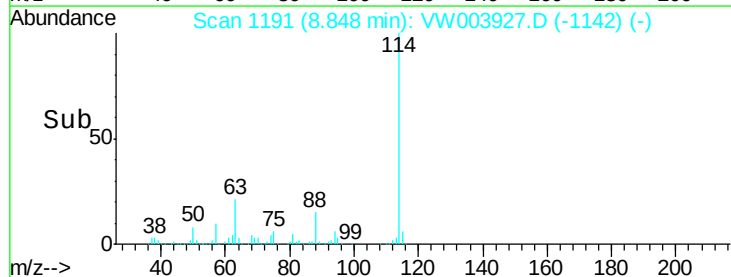
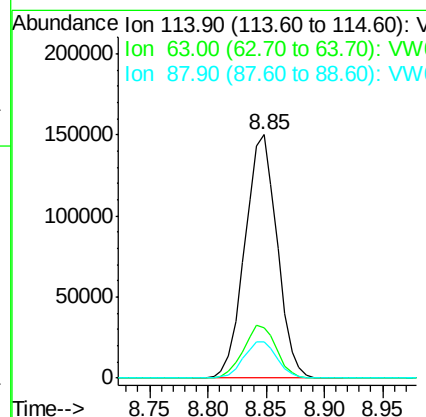
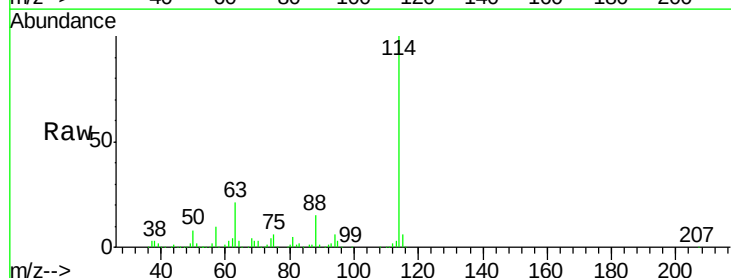
Instrument :
 MSVOA_W
 ClientSampleId :

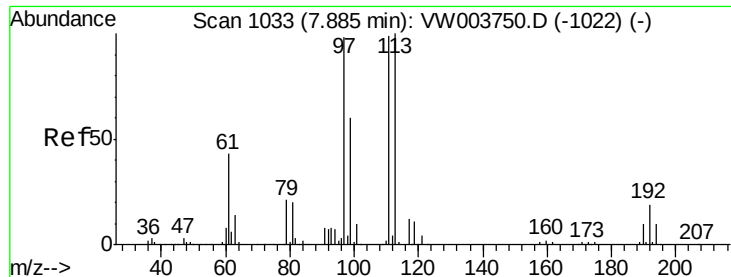
Tot Ion: 65 Resp: 112332
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1191
 Delta R.T. -0.00 min
 Lab File: VW003927.D
 Acq: 13 Jul 2018 20:38

Tgt Ion: 114 Resp: 290197
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 41.8
 88 15.1 0.0 30.2

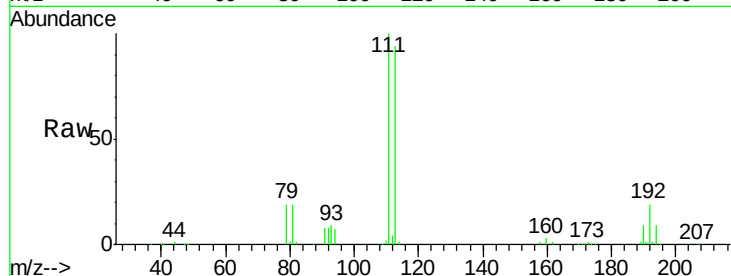




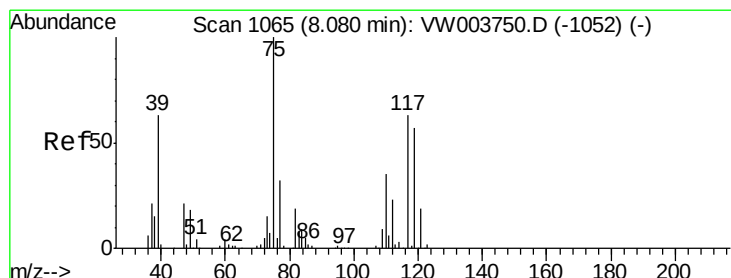
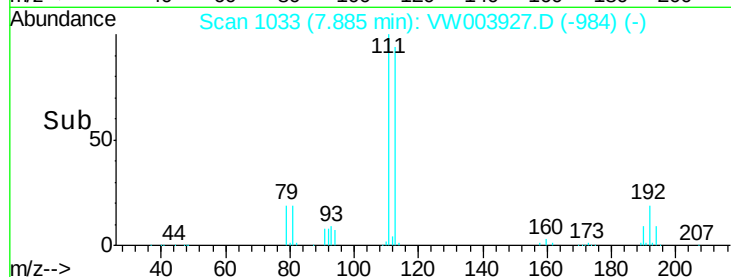
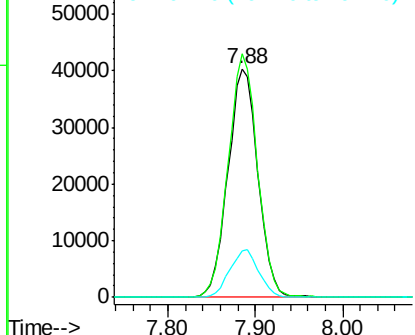
#35
 Dibromofluoromethane
 Concen: 47.215 ug/l
 RT: 7.88 min Scan# 1033
 Delta R.T. -0.00 min
 Lab File: VW003927.D
 Acq: 13 Jul 2018 20:38

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion:113 Resp: 95896
 Ion Ratio Lower Upper
 113 100
 111 104.3 81.7 122.5
 192 20.4 15.8 23.8

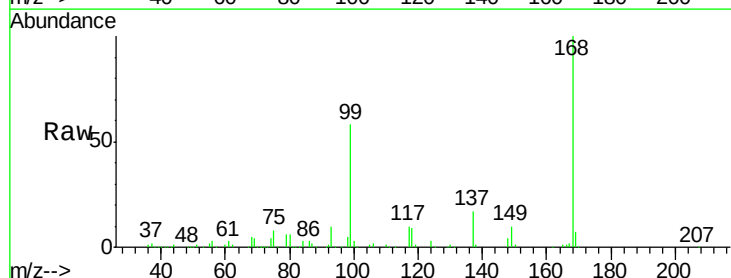


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

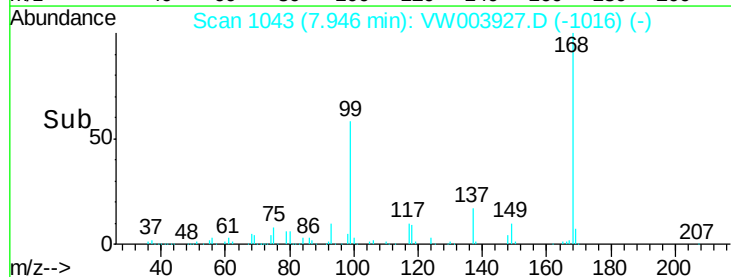
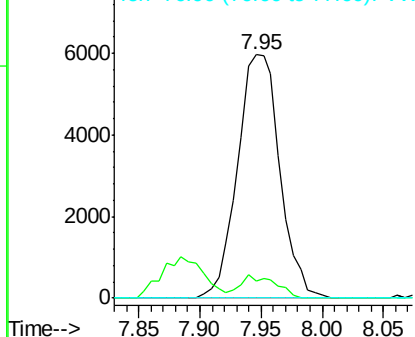


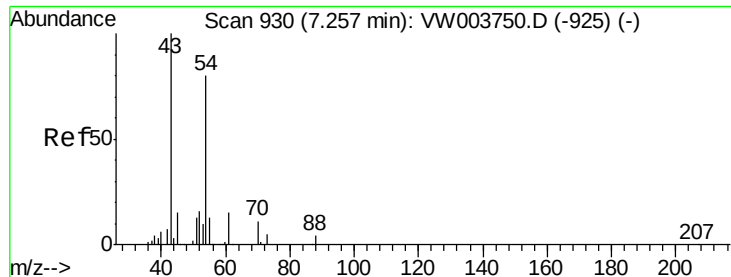
#36
 1,1-Dichloropropene
 Concen: 4.664 ug/l
 RT: 7.95 min Scan# 1043
 Delta R.T. -0.13 min
 Lab File: VW003927.D
 Acq: 13 Jul 2018 20:38

Tgt Ion: 75 Resp: 14361
 Ion Ratio Lower Upper
 75 100
 110 7.8 16.9 50.6#
 77 0.0 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VW
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VW





#37

Ethyl Acetate

Concen: 13.909 ug/l

RT: 7.18 min Scan# 918

Delta R.T. -0.07 min

Lab File: VW003927.D

Acq: 13 Jul 2018 20:38

Instrument :

MSVOA_W

ClientSampleId :

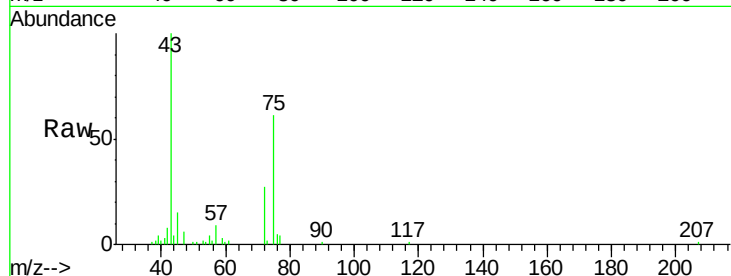
Tot Ion: 43 Resp: 20839

Ion Ratio Lower Upper

43 100

61 0.0 10.6 15.8#

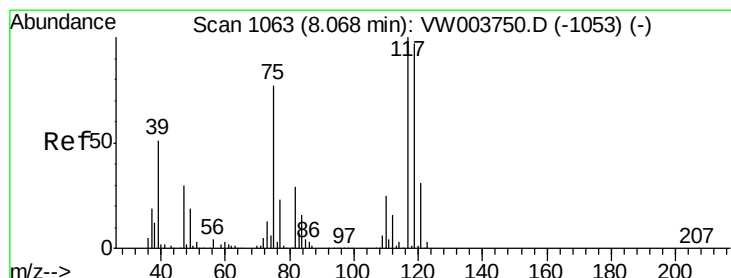
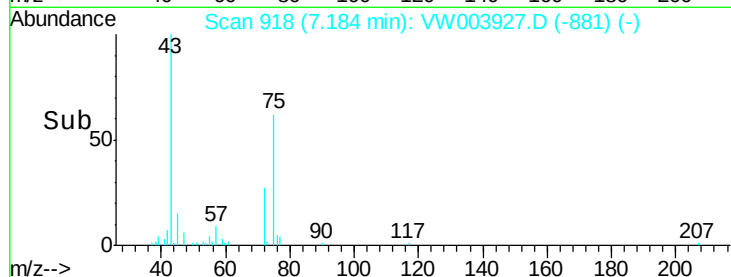
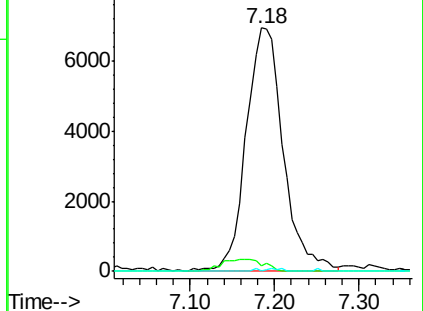
70 0.6 7.5 11.3#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 70.00 (69.70 to 70.70): VW



#38

Carbon Tetrachloride

Concen: 5.912 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.12 min

Lab File: VW003927.D

Acq: 13 Jul 2018 20:38

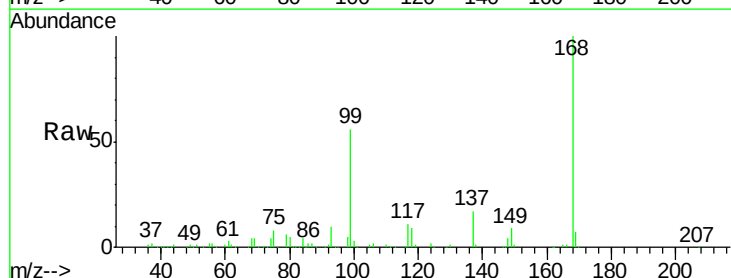
Tgt Ion: 117 Resp: 17307

Ion Ratio Lower Upper

117 100

119 5.3 77.4 116.2#

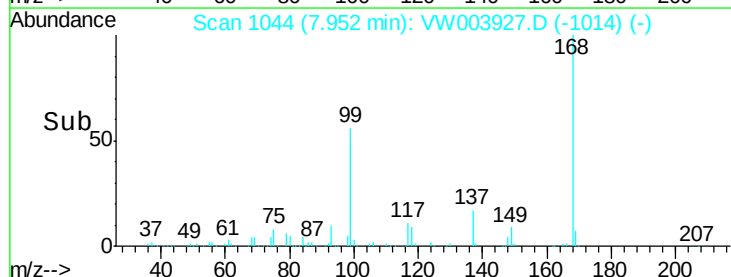
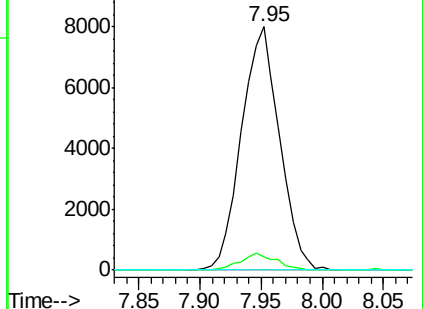
121 0.0 24.6 37.0#

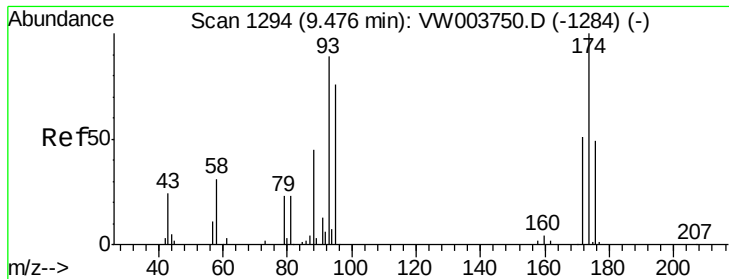


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#49

1,4-Dioxane

Concen: 2.279 ug/l

RT: 9.49 min Scan# 1296

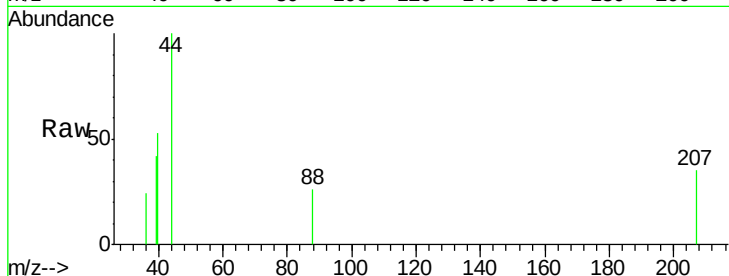
Delta R.T. 0.01 min

Lab File: VW003927.D

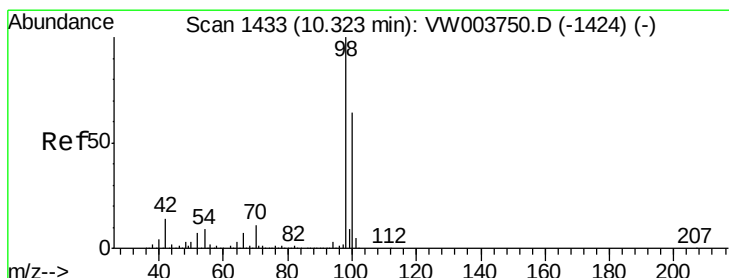
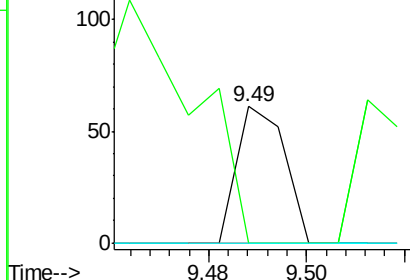
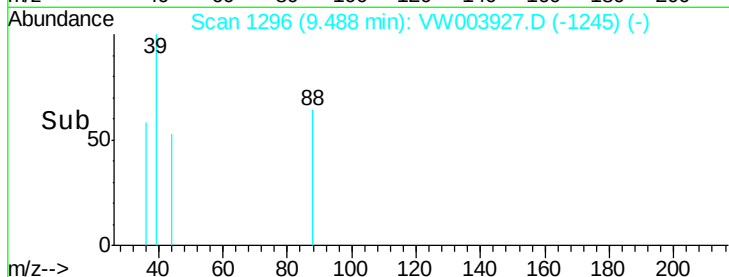
Acq: 13 Jul 2018 20:38

Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 88 Resp: 41
Ion Ratio Lower Upper
88 100
43 0.0 0.0 0.0
58 0.0 59.7 89.5#



Abundance Ion 88.00 (87.70 to 88.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW



#50

Toluene-d8

Concen: 41.341 ug/l

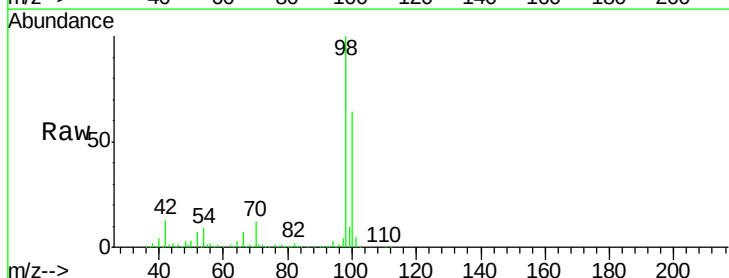
RT: 10.33 min Scan# 1434

Delta R.T. 0.01 min

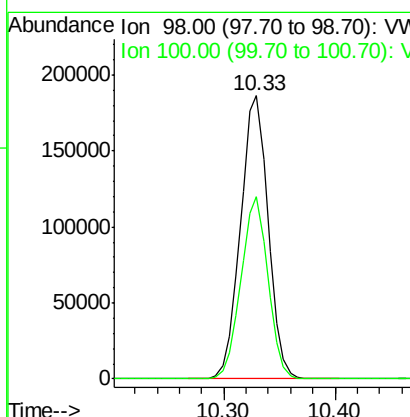
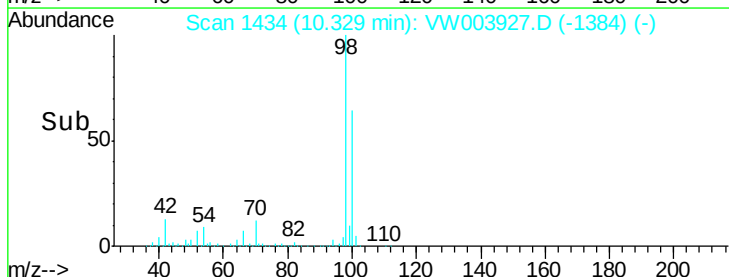
Lab File: VW003927.D

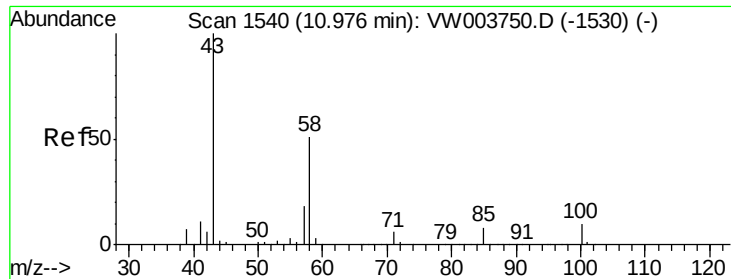
Acq: 13 Jul 2018 20:38

Tgt Ion: 98 Resp: 321188
Ion Ratio Lower Upper
98 100
100 62.8 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VW
Ion 100.00 (99.70 to 100.70): VW

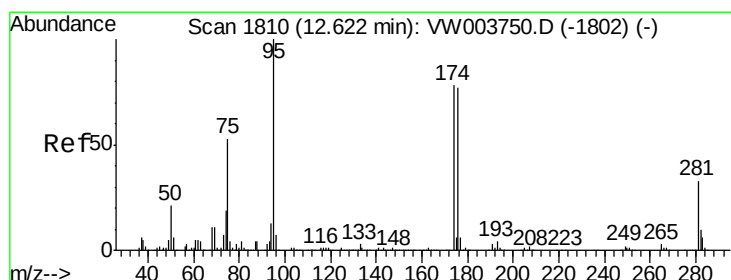
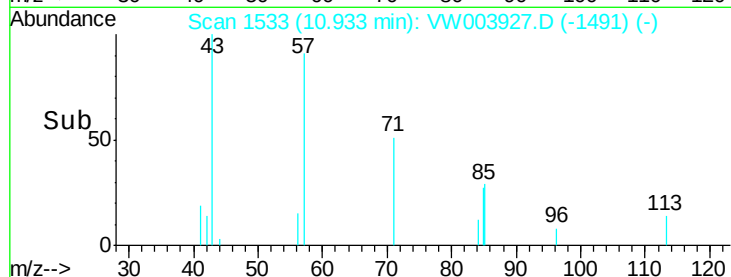
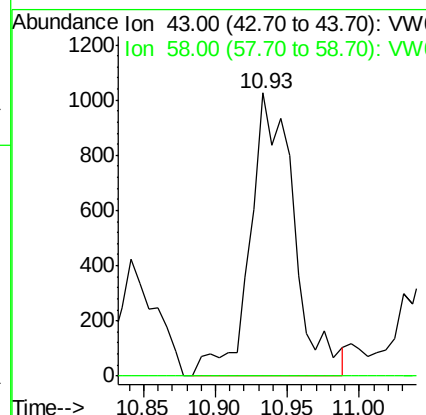
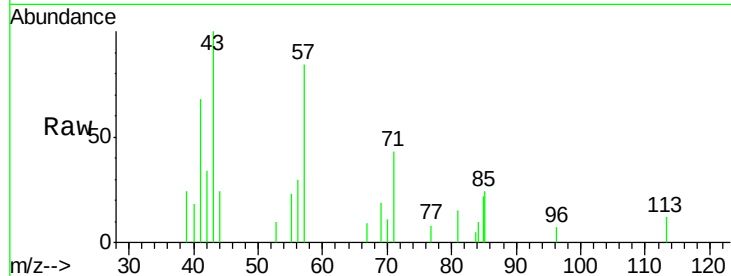




#59
2-Hexanone
Concen: 2.137 ug/l
RT: 10.93 min Scan# 1533
Delta R.T. -0.04 min
Lab File: VW003927.D
Acq: 13 Jul 2018 20:38

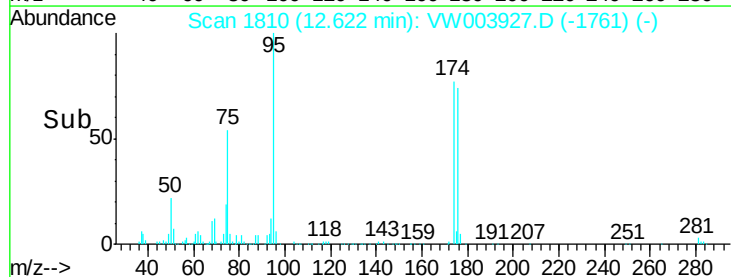
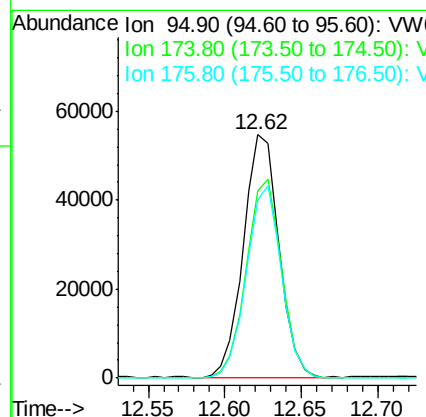
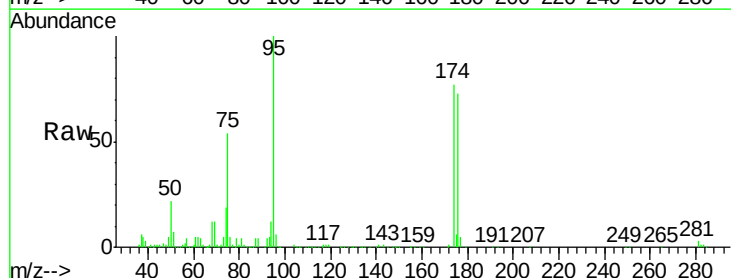
Instrument :
MSVOA_W
ClientSampled :

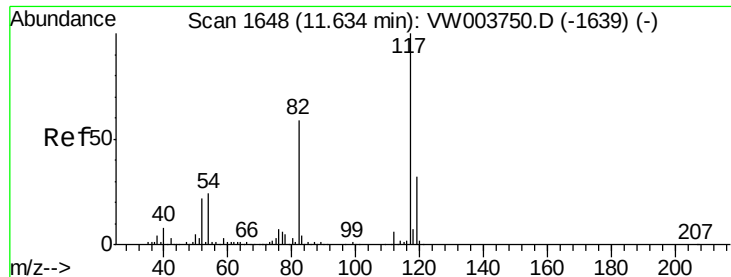
Tot Ion: 43 Resp: 2156
Ion Ratio Lower Upper
43 100
58 0.0 25.4 76.2#



#62
4-Bromofluorobenzene
Concen: 31.302 ug/l
RT: 12.62 min Scan# 1810
Delta R.T. -0.00 min
Lab File: VW003927.D
Acq: 13 Jul 2018 20:38

Tgt Ion: 95 Resp: 87990
Ion Ratio Lower Upper
95 100
174 81.6 0.0 163.4
176 78.0 0.0 156.8

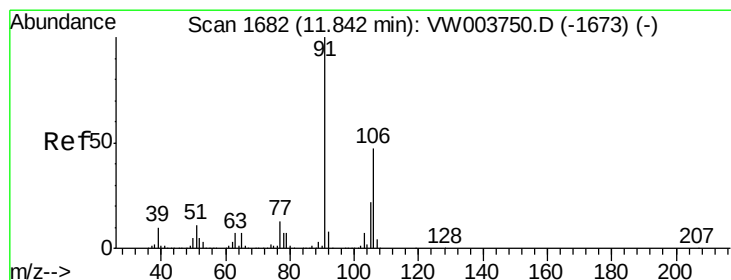
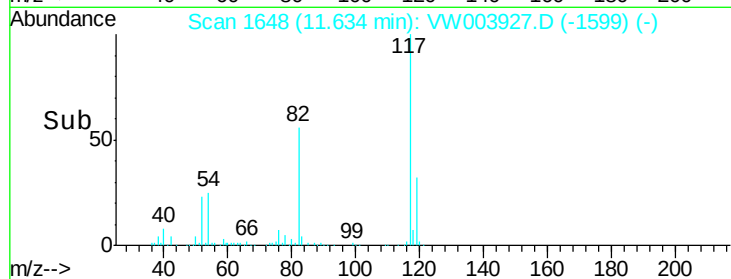
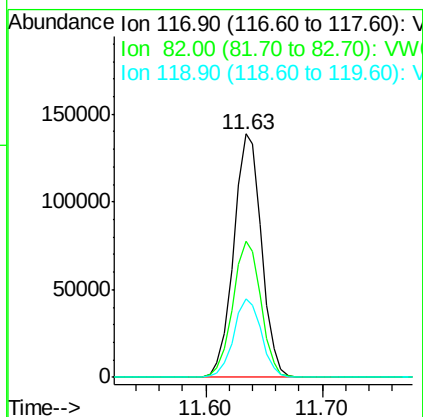
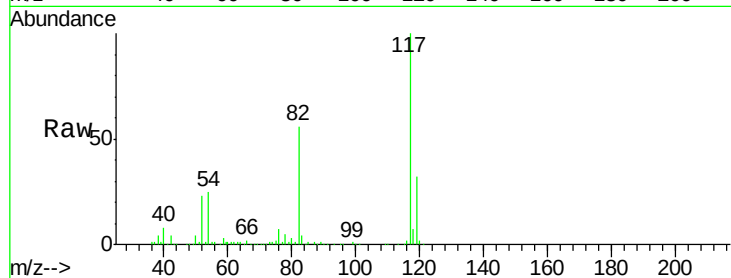




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1648
Delta R.T. -0.00 min
Lab File: VW003927.D
Acq: 13 Jul 2018 20:38

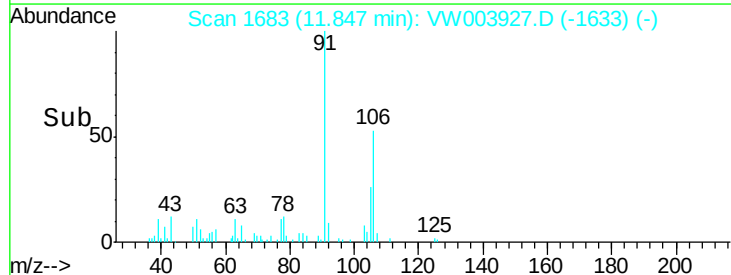
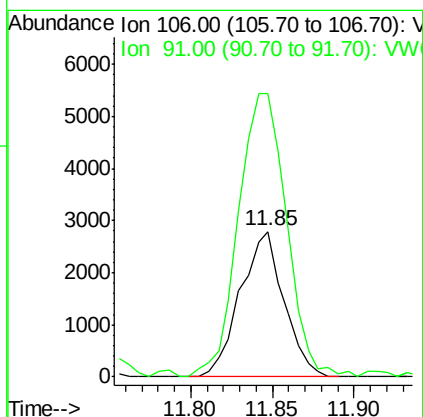
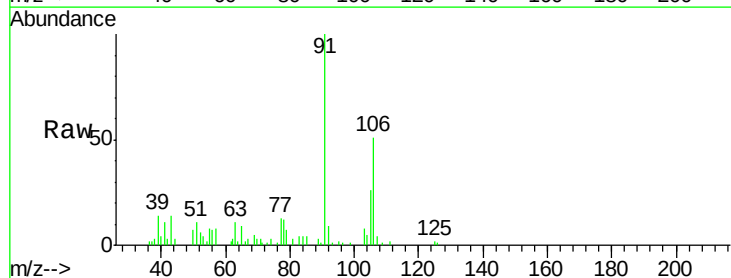
Instrument :
MSVOA_W
ClientSampleId :

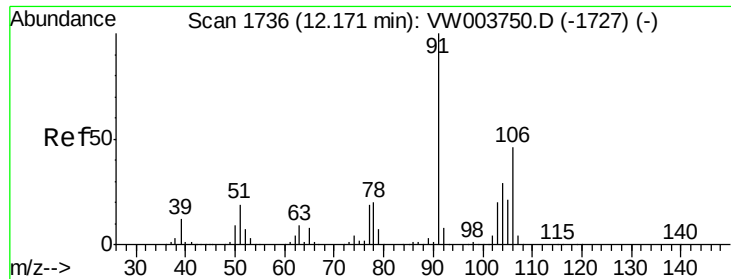
Tot Ion:117 Resp: 230268
Ion Ratio Lower Upper
117 100
82 55.8 46.9 70.3
119 32.1 25.5 38.3



#68
m/p-Xylenes
Concen: 1.563 ug/l
RT: 11.85 min Scan# 1683
Delta R.T. 0.01 min
Lab File: VW003927.D
Acq: 13 Jul 2018 20:38

Tgt Ion:106 Resp: 5195
Ion Ratio Lower Upper
106 100
91 214.1 164.3 246.5

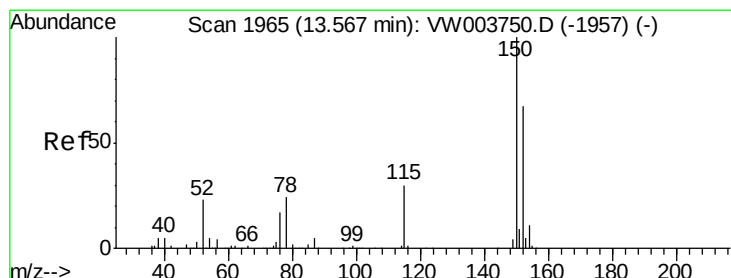
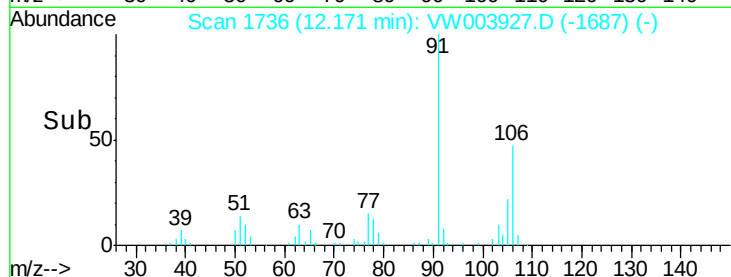
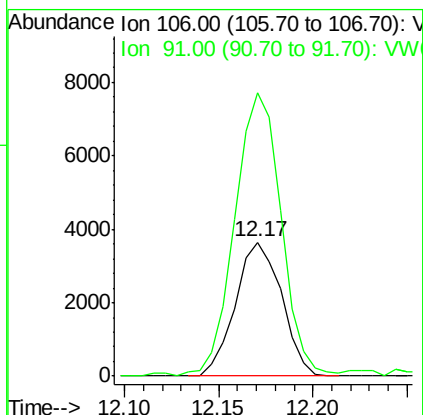
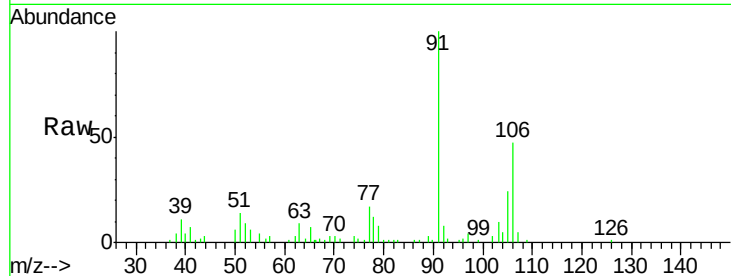




#69
o-Xylene
Concen: 2.018 ug/l
RT: 12.17 min Scan# 1736
Delta R.T. -0.00 min
Lab File: VW003927.D
Acq: 13 Jul 2018 20:38

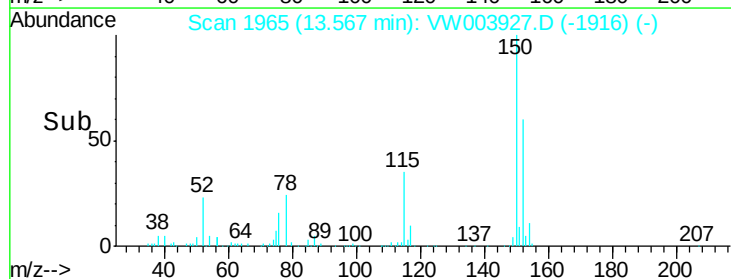
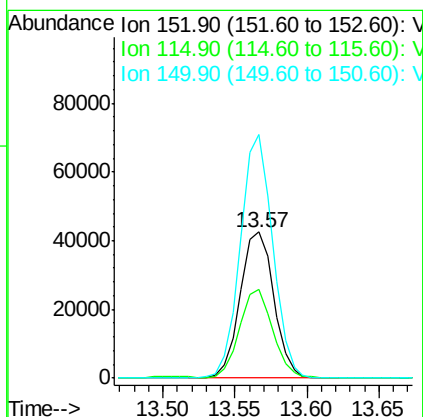
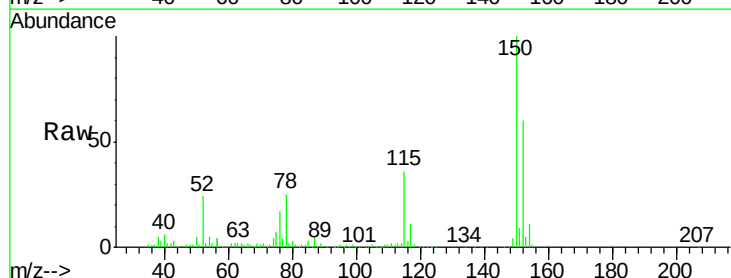
Instrument :
MSVOA_W
ClientSampled :

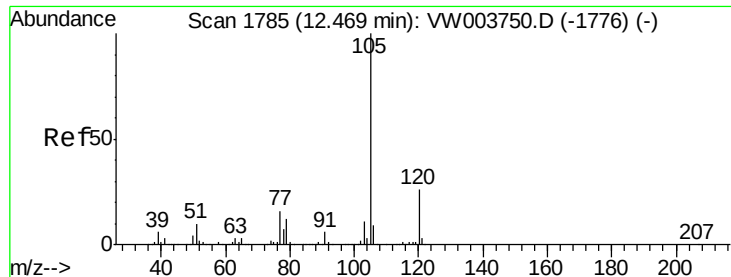
Tot Ion:106 Resp: 6188
Ion Ratio Lower Upper
106 100
91 212.7 109.1 327.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.57 min Scan# 1965
Delta R.T. -0.00 min
Lab File: VW003927.D
Acq: 13 Jul 2018 20:38

Tgt Ion:152 Resp: 69054
Ion Ratio Lower Upper
152 100
115 59.9 28.9 86.8
150 159.6 0.0 342.4





#73

Isopropylbenzene

Concen: 1.146 ug/l

RT: 12.47 min Scan# 1785

Delta R.T. -0.00 min

Lab File: VW003927.D

Acq: 13 Jul 2018 20:38

Instrument :

MSVOA_W

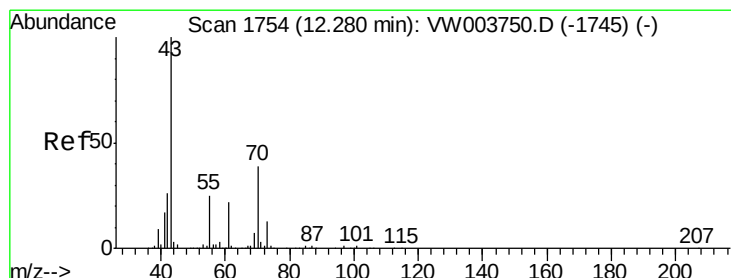
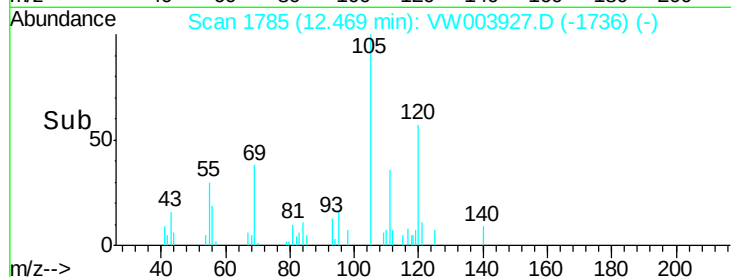
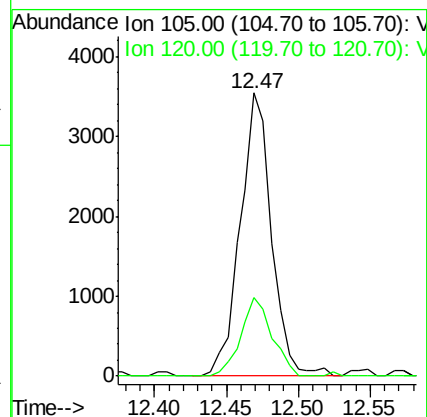
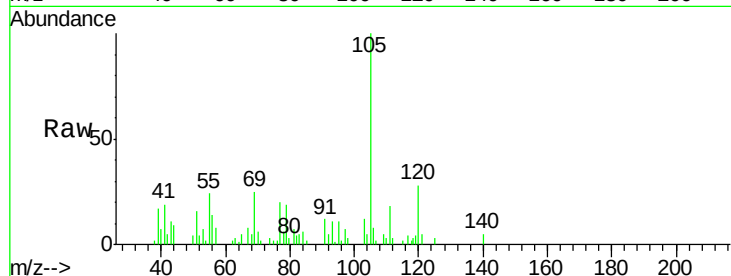
ClientSampleId :

Tot Ion:105 Resp: 5361

Ion Ratio Lower Upper

105 100

120 27.5 13.1 39.3



#74

N-ethyl acetate

Concen: 1.432 ug/l

RT: 12.26 min Scan# 1750

Delta R.T. -0.02 min

Lab File: VW003927.D

Acq: 13 Jul 2018 20:38

Tgt Ion: 43 Resp: 1815

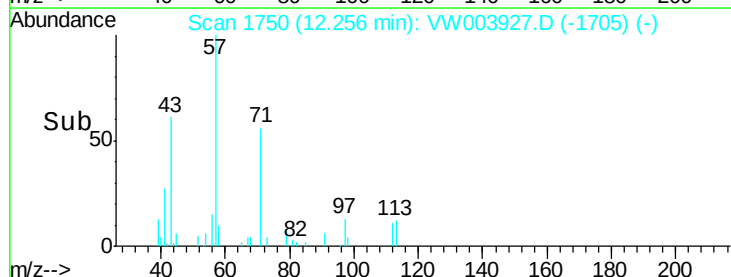
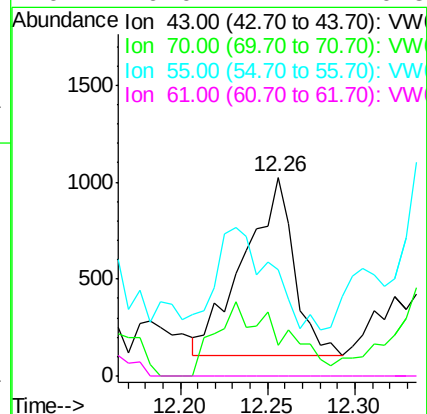
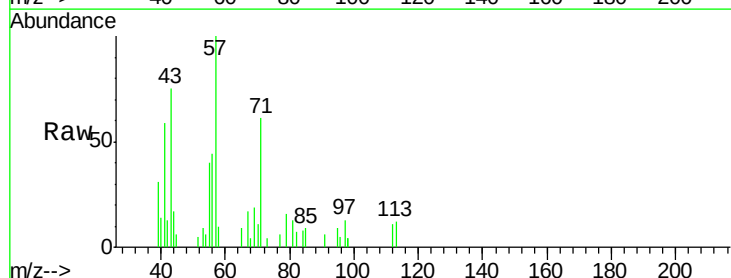
Ion Ratio Lower Upper

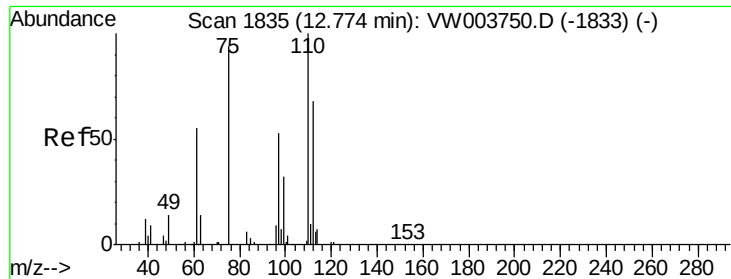
43 100

70 0.0 31.3 46.9#

55 0.0 20.1 30.1#

61 0.0 17.7 26.5#

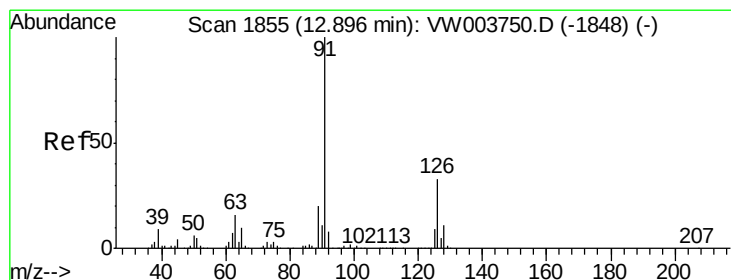
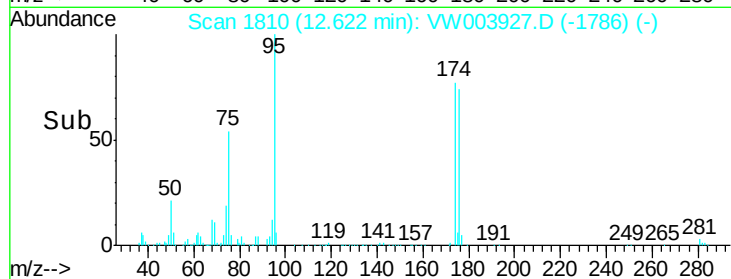
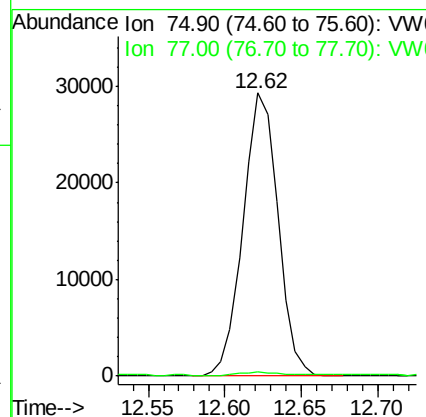
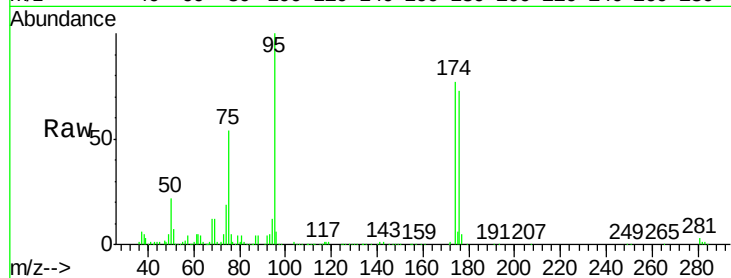




#76
 1,2,3-Trichloropropane
 Concen: 68.626 ug/l
 RT: 12.62 min Scan# 1810
 Delta R.T. -0.15 min
 Lab File: VW003927.D
 Acq: 13 Jul 2018 20:38

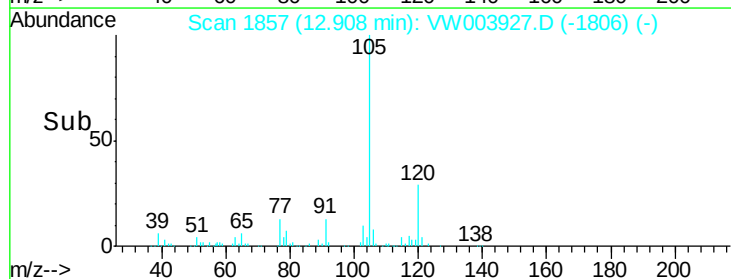
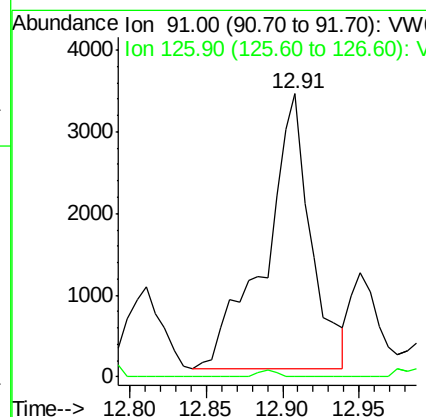
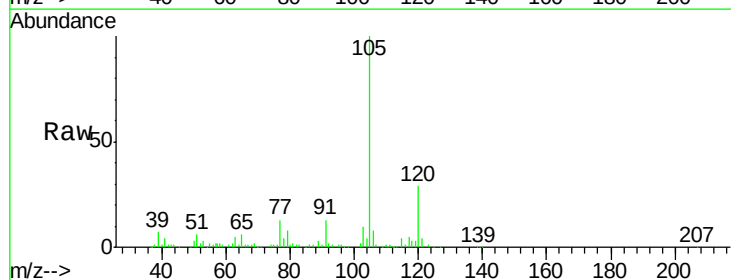
Instrument :
 MSVOA_W
 ClientSampled :

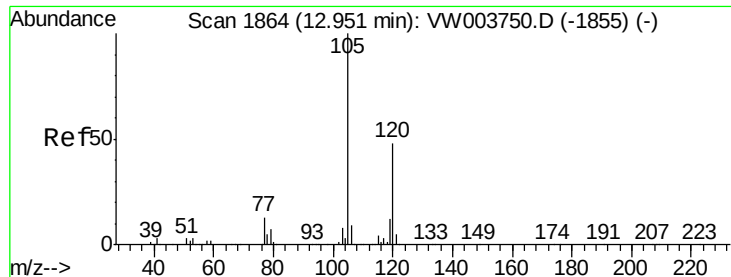
Tot Ion: 75 Resp: 46535
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#79
 2-Chlorotoluene
 Concen: 2.064 ug/l
 RT: 12.91 min Scan# 1857
 Delta R.T. 0.01 min
 Lab File: VW003927.D
 Acq: 13 Jul 2018 20:38

Tgt Ion: 91 Resp: 6962
 Ion Ratio Lower Upper
 91 100
 126 1.0 17.0 51.0#

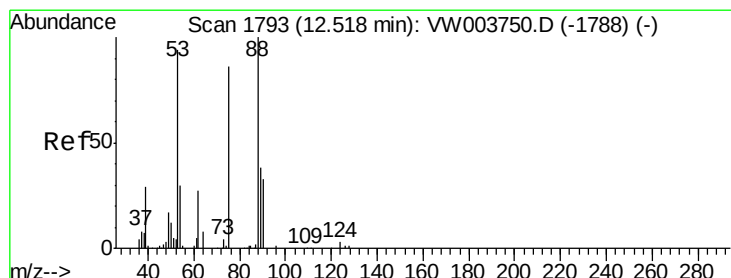
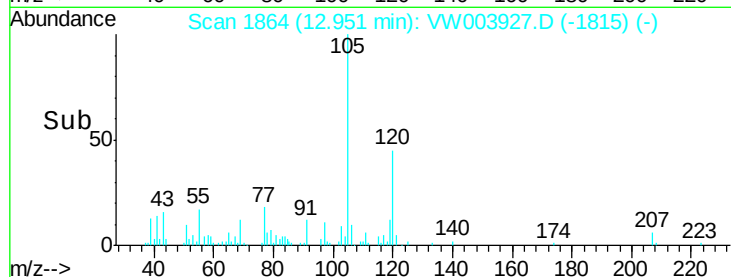
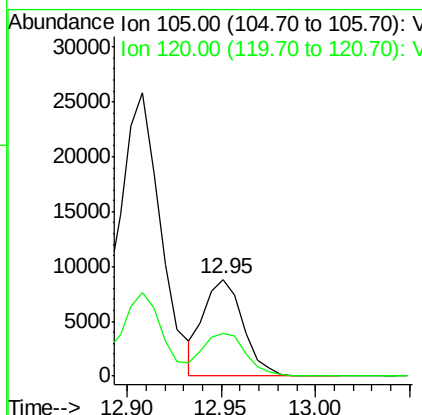
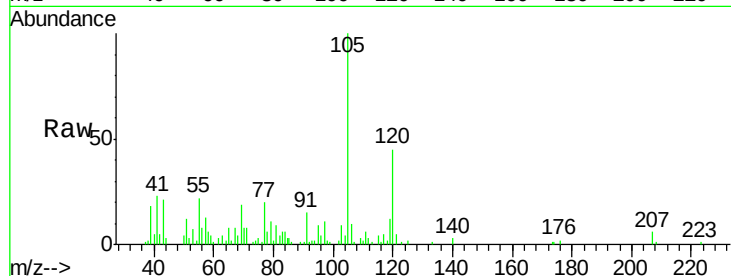




#80
 1,3,5-Trimethylbenzene
 Concen: 3.197 ug/l
 RT: 12.95 min Scan# 1864
 Delta R.T. -0.00 min
 Lab File: VW003927.D
 Acq: 13 Jul 2018 20:38

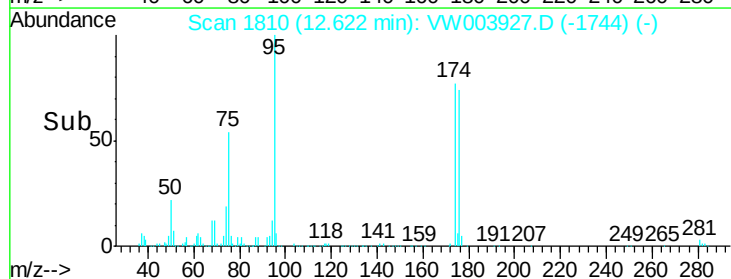
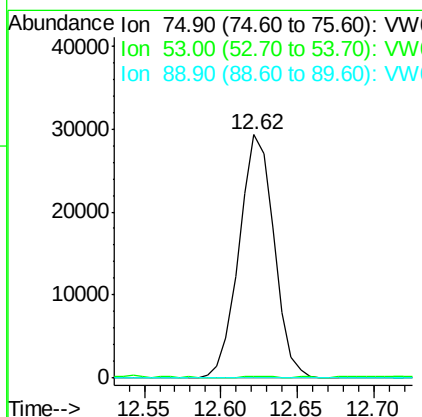
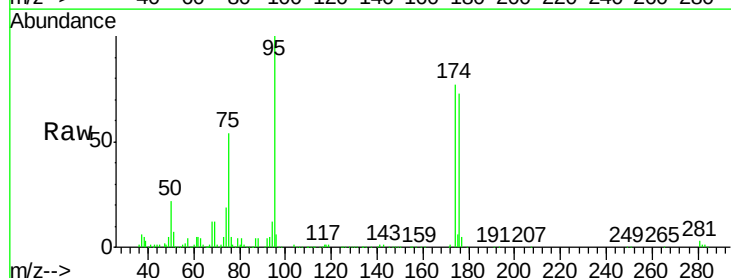
Instrument :
 MSVOA_W
 ClientSampled :

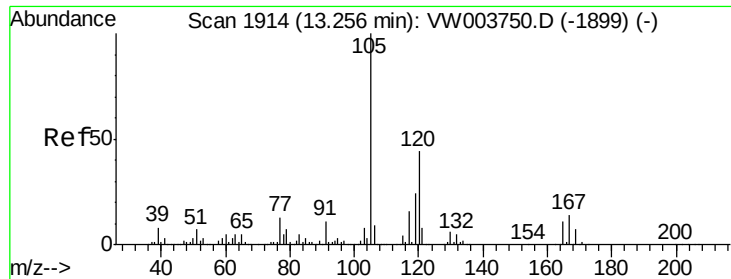
Tot Ion:105 Resp: 12885
 Ion Ratio Lower Upper
 105 100
 120 47.3 24.2 72.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 167.875 ug/l
 RT: 12.62 min Scan# 1810
 Delta R.T. 0.10 min
 Lab File: VW003927.D
 Acq: 13 Jul 2018 20:38

Tgt Ion: 75 Resp: 46535
 Ion Ratio Lower Upper
 75 100
 53 0.9 85.0 127.6#
 89 0.0 36.3 54.5#

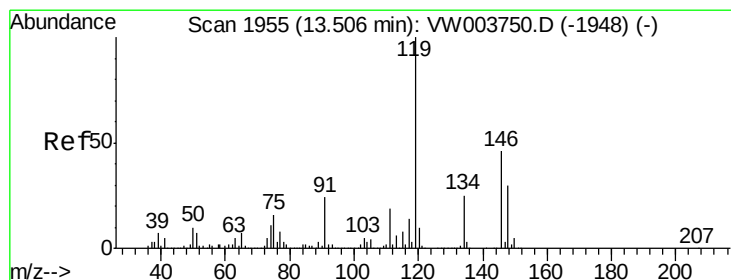
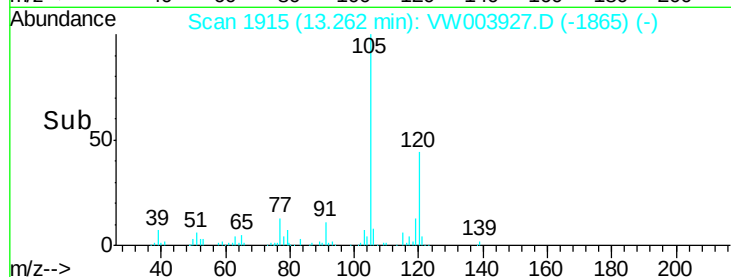
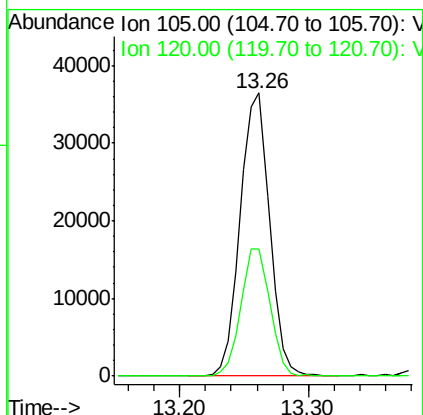
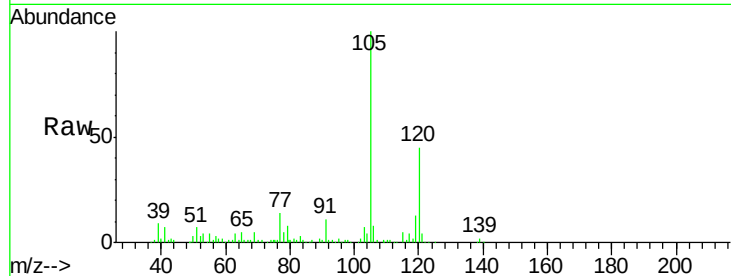




#84
 1,2,4-Trimethylbenzene
 Concen: 13.745 ug/l
 RT: 13.26 min Scan# 1915
 Delta R.T. 0.01 min
 Lab File: VW003927.D
 Acq: 13 Jul 2018 20:38

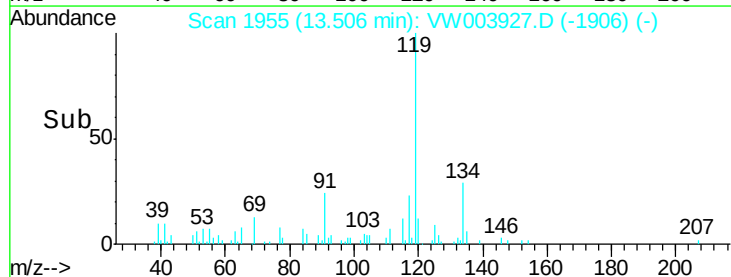
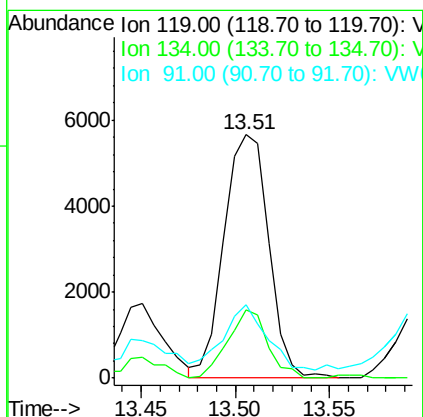
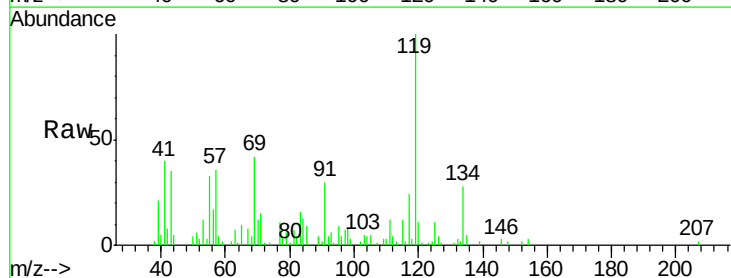
Instrument :
 MSVOA_W
 ClientSampleId :

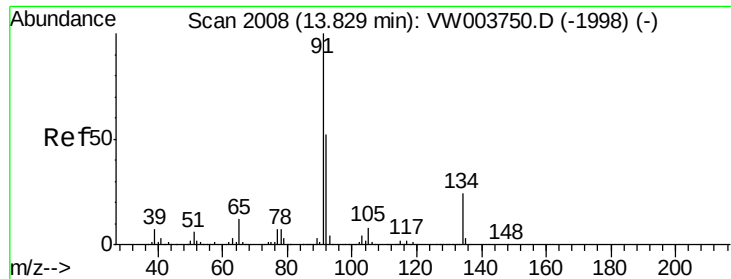
Tot Ion:105 Resp: 57555
 Ion Ratio Lower Upper
 105 100
 120 44.8 22.0 66.0



#86
 p-Isopropyltoluene
 Concen: 2.144 ug/l
 RT: 13.51 min Scan# 1955
 Delta R.T. -0.00 min
 Lab File: VW003927.D
 Acq: 13 Jul 2018 20:38

Tgt Ion:119 Resp: 9314
 Ion Ratio Lower Upper
 119 100
 134 25.1 13.1 39.1
 91 25.0 11.9 35.9





#89

n-Butylbenzene

Concen: 5.625 ug/l

RT: 13.77 min Scan# 1998

Delta R.T. -0.06 min

Lab File: VW003927.D

Acq: 13 Jul 2018 20:38

Instrument :

MSVOA_W

ClientSampleId :

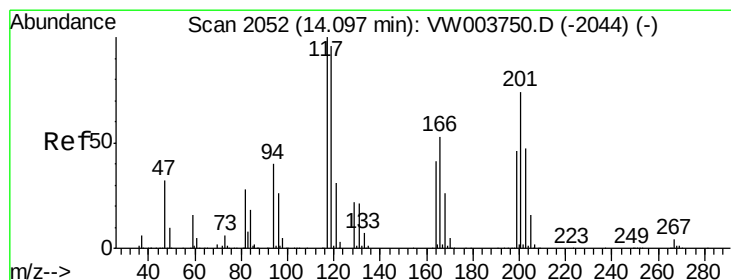
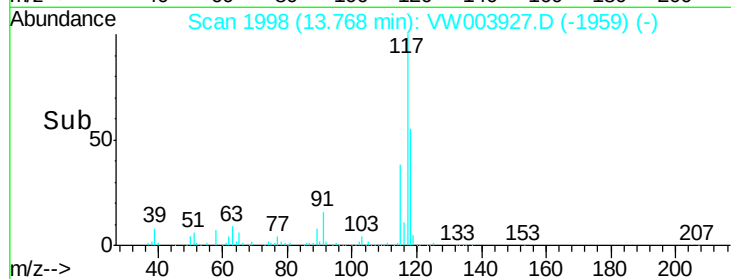
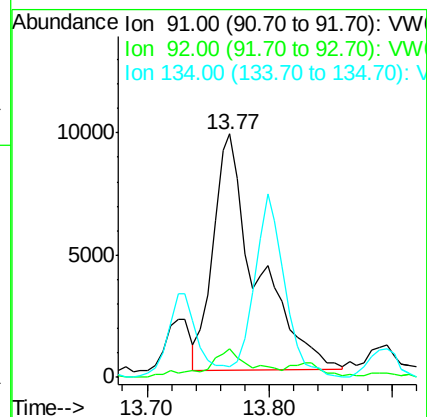
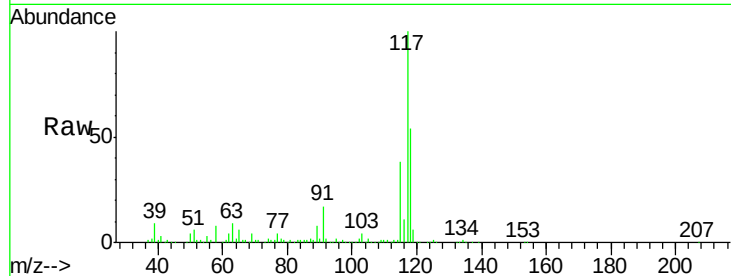
Tot Ion: 91 Resp: 24044

Ion Ratio Lower Upper

91 100

92 12.2 26.1 78.3#

134 0.0 12.4 37.4#



#90

Hexachloroethane

Concen: 11.281 ug/l

RT: 14.10 min Scan# 2053

Delta R.T. 0.01 min

Lab File: VW003927.D

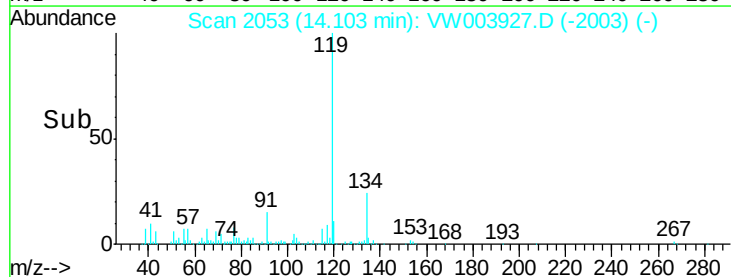
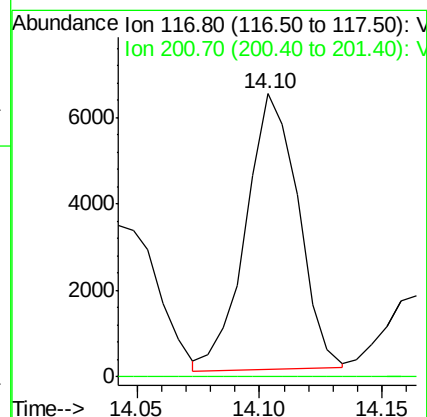
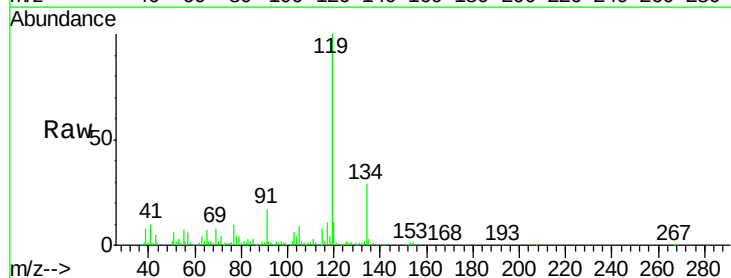
Acq: 13 Jul 2018 20:38

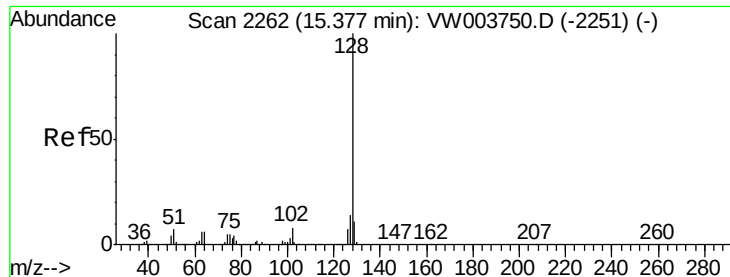
Tgt Ion: 117 Resp: 9442

Ion Ratio Lower Upper

117 100

201 0.0 39.2 117.6#





#95

Naphthalene

Concen: 1.732 ug/l

RT: 15.38 min Scan# 2262

Delta R.T. -0.00 min

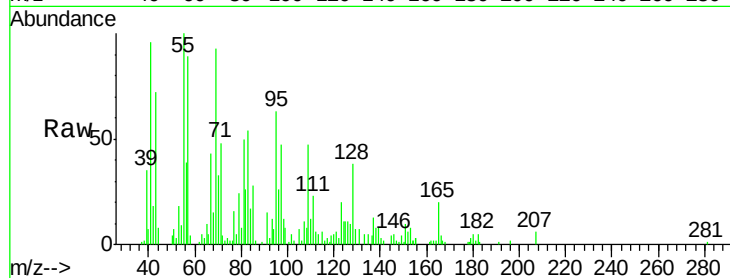
Lab File: VW003927.D

Acq: 13 Jul 2018 20:38

Instrument :

MSVOA_W

ClientSampleId :



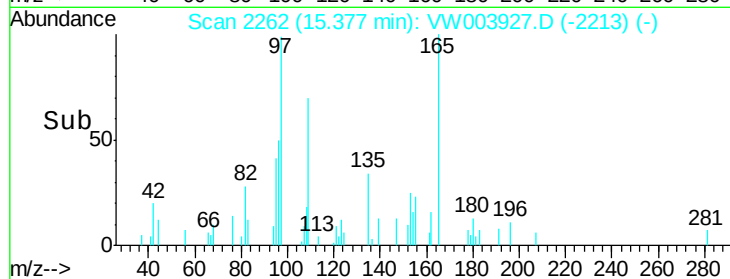
Tot Ion:128 Resp: 4435

Ion Ratio Lower Upper

128 100

127 0.0 10.8 16.2#

129 13.6 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

